"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANALIYEVA, N.A.

X-ray diffraction study of distortions of the crystalline structure of brass induced by friction. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.1:83-90 '61. (MIRA 14:7)
(X rays--Diffraction) (Brass--Testing) (Friction)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANALIYEVA, N.A.

X-ray diffraction study of brand U10A steel subjected to mechanical wear. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.1:91-96 '61. (MIRA 14:7)
(X Rays--Diffraction) (Steel--Testing) (Mechanical wear)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANALIYEVA, N.A.; TERMINASOV, Yu.S.

X-ray diffraction study of U10A steel subjected to wear. Trudy LIEI no.29:46-50 [i.e. 39] '62. (MIRA 16:6)
(X-ray diffraction examination) (Steel--Testing)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANALIYEVA, N.A.; TERMINASOV, Yu.S.

X-ray diffraction study of distortions of the crystalline structure of brass due to friction. Trudy LIET no.29:56-60 [i.e. 39] '62. (MIRA 16:6)
(X-ray difraction examination) (Dislocations in metals)
(Brass--Testing)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KRUPNOV, A.K.; IMANAYEV, N.G.

Excluding bottom waters through hydraulic fracturing of strata in the fields of the Tuymazy Petroleum Trust. Neft. khoz. 35 no.11: 55-58 N '57. (MIRA 10:11)

(Tuymazy region--Oil well cementing)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

92-58-5-6/30

AUTHOR: Imanayev, N. G., Senior Geologist

TITLE: Our Methods of Shutting Off Bottom Waters (Nashi metody izolyatsii podosnvennykh vod)

PERIODICAL: Neftyanik, 1958, Nr 5, pp 8-10 (USSR)

ABSTRACT: The author states that a large quantity of water accompanies the petroleum which is extracted from the Tuymazy oil fields, and the percentage of water is steadily rising. However, the main cause of this situation is the new advanced method of flooding productive formation boundaries, which is applied to boost the output of oil wells. Bottom water and injected water may infiltrate into the bore-hole if its plugging is unsatisfactory. To combat this water infiltration, special oil well maintenance teams were created at the Tuymazy oil fields. However, for many years their efforts to prevent the penetration of water into oil wells were in vain. Later, between 1955 and 1957, a new efficient method of creating an artificial waterproof shield to prevent water infiltration was developed and applied. It consists of fracturing the formation hydraulically and

Card 1/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

92-58-5-8/30

Our Methods of Shutting (Cont.)

of injecting a viscous mixture (Devonian crude with mazout) and cement slurry into the resulting fissure. In 1957 this method produced very good results. For instance, of 10 wells which were treated as described, 8 have shown that bottom waters were shut off entirely or almost entirely without affecting the output of oil. The results produced by applying this new method are shown in 2 graphs (Fig. 1 and Fig. 2) and in 2 tables.

ASSOCIATION: NPU Tuymazaneft'

1. Drilling operations—USSR 2. Water—Control systems

Card 2/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SOV/95-58-7-8/17

AUTHOR: Zolotyev, T.M. and Imanayev, N.G.

TITLE: Quality of Oil Well Plugs and Methods for Testing and Improving the Tightness of Cement Collars at the Lower End of Casing Columns (O kachestve tamponazha skvazhin i metodakh proverki i ispravleniya negermetichnogo tsementnogo kol'tsa za kolonnoy)

PERIODICAL: Neftyanoye khozyaystvo, 1958, 36, Nr 7, pp. 38-44 (USSR)

ABSTRACT: The article states that leaky cement collars at the lower end of casing columns, poor quality of cement, and the off-center position of some casing columns (Fig. 1) lead to premature flooding of wells at the Tuymazy oilfield. The authors made a study of flooded wells and presented the experimental data in Table 1. The quality of plugging cement employed is presented in Table 2. The cement plugs were tested by pumping activated fluid into the well according to a method proposed by MNI im. akad. I.M. Gubkina (MNI im. acad. I.M. Gubkin). It was determined that when the cement plugs were of good quality the radioactive isotopes penetrated only the perforated interval (Fig.2). When the cement plugs were defective the radioactive isotopes penetrated up to the lower water-bearing horizon or to the water-bearing sector in the uniform layer (Fig.3). The quality of defective plugs was improved by pumping cement slurry into the filter of the column by means of a hydraulic press according to the method of V.D. Malevanskiy (Ref.2). Fig. 4 shows the good results obtained by this method as well as by using the fine cements of UfNII (Ref.3). The injection of cement into the layers with the aid of hydraulic fracturing was carried out according

Card 1/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

Sov/93-58-7-8/17

Quality of Oil Well Plugs and Methods (Cont.)

to the method described by A.K. Krupnov and N.G. Imanayev in their article "Blocking of Bottom Water at the Tuymazaneft' Oilfields by Hydraulic Fracturing of the Formation" (Izolyatsiya podoshvennykh vod s primeneniyem gidrorazryva plasta na promyslakh Tuymazanefti), published in Neftyanoye khozyaystvo, 1957, Nr 11. The good results obtained with this method are shown in Figs. 5 and 6. Use was also made of the VNII method requiring injections of urea-formaldehyde resin into the formation. The authors point out that defective cement plugs produce oil of high water content (Fig. 7), and they make seven suggestions on how to eliminate the premature flooding of wells. There are 7 figures, 2 tables, and 4 Soviet references.

Card 2/2 1. Petroleum--Production

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KRAVCHENKO, Ivan Ivanovich; IMANAYEV, Nikolay Gavrilovich; LATUKHINA, Ye.I., vedushchiy red.; SOLOMONIDIN, S.M., tekhn.red.

[Exclusion of waters in oil wells] Izolitsiia vod v neftianykh skvazhinakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 187 p. (MIRA 13:3)
(Oil field brines)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEV, N.G.; KRUPNOV, A.K.

Interval multiple fracturing using balls as temporary sealing agents; fracturing practices in the Tuymazy Petroleum Trust. Neft. khoz. 38 no.10:8-14 O '60. (MIRA 13:9)
(Tuymazy region--Oil wells--Hydraulic fracturing)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEV, N.G.

Using the layer-by-layer method for flooding oil. Neft. khoz. 40 no.4:67-70 Ap '62. (MIRA 15:5)
(Volga-Ural region--Oil field flooding)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEV, N.G.; GOMBINER, B.Ya.; KRAVCHENKO, I.I.; BLAZHEVICH, V.A.; MARKOV, V.F.; SATTAROV, M.M.; GIL'MANSHIN, I.G.; ASHIROV, K.B.; BOBELYUK, V.P.; ROMANYUK, F.I.

Comments on the article by M.L. Surguchov "Exclusion of reservoir waters", Neft.khoz., No.11, 1962. Neft.khoz. 41 no.8:38-57 Ag '63.

Present status of and prospects for the construction of steel tanks in the U.S.S.R. Ibid.:58-62

1. Neftepromyslovoye upravleniye Tuymazaneft' (for Imanayev, Gombiner). 2. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut (for Kravchenko, Blazhevich). 3. Neftepromyslovoye upravleniye Chernomorneft' (for Markov). 4. Neftepromyslovoye upravleniye Arlanneft' (for Sattarov, Gil'manshin). 5. Gosudarstvennyy institut po proyektirovaniyu i issledovatel'skim rabotam neftedobyvayushchey promyshlennosti vostochnykh rayonov strany (for Ashirov). 6. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut (for Bobelyuk, Romanyuk).
(MIRA 17:10)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

ZOLOYEV, T.M.; IMANAYEV, N.G.; KOBELEVA, V.A.; YAKUPOV, F.M.

Development of the Apsalyamovo water cut petroleum area of the Tuymazy field. Neft. khoz. 42 no. 3:21-26 Mr '64. (MIRA 17:7)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KISLYAKOV, Yu.P.; [illegible], N.G.

Transfer of flooded wells to subjacent oil-bearing horizons. Nefteprom. delo no.9:3-5 '64. (MIRA 17:10)

1. Nefteprom yslovoye upravleniye "Tuymazaneft'".

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEVA, R. SH.

IMANAYEVA, R. SH.- "Climatic Characteristic of Warm and Cold Winters in Tatary," Min of Higher Education USSR, Kazan State U imeni V. I. Ul'yanov-Lenin, Kazan, 1955 (Dissertations for the Degree of Candidate of Geographical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEV, R.Sh., kand.geograf.nauk

Spring in Tatarstan. Priroda 50 no.4:126 Ap '61. (MIRA 14:4)

1. Kazanskiy gosudarstvennyy universitet.
(Tatar A.S.S.R.—Spring)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEVA, R.Sh., kand.geograf.nauk

Warm winter in the Tatar A.S.S.R. Priroda 51 no.1:125 Ja '62. (MIRA 15:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I.Ul'yanova-Lenina.
(Tatar A.S.S.R.--Winter)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANAYEVA, R.Sh., kand.biolog.nauk (Kazan')

A dry and warm October. Priroda 51 no.10:127 O '62. (MIRA 15:10)

(Volga Valley—Weather)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANBAKIYEV, K.Yu., aspirant

Swedish fly on wheat. Zashch. rast. ot vred. i bol. 9 no.9:42 '64. (MIRA 17:11)

1. Kazakhskiy institut zashchity rasteniy, Kargalinka.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANBAYEV, Sh.R.; BALGOZHIN, Sh.O., kand.tekhn.nauk

Efficiency of using the Shch-54 powered movable support. Sbor. nauch. trud. Kaz GMI no.19:121-131 '60. (MIRA 15:3)
(Mine timbering)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANBEKOV, Amantur; MURATALIYEV, B.T., kand.ekonom. nauk, otv. red.; KOVAL'CHUK, V.V., red. izd-va; ANOKHINA, M.G., tekhn. red.

[Problems of strengthening business accounting at the enterprises of light industry in Kirghizia] Voprosy ukrepleniia khozrascheta na predpriiatiiakh legkoi promyshlennosti Kirgizii. Frunze, Izd-vo AN Kirgizskoi SSR, 1961. 70 p. (MIRA 14:11)
(Kirghizistan—Manufactures—Finance)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGALIYEV, A., gornyy inzh.; ASATOV, S.K., gornyy inzh.

Variation in the chamber-pillar method using strip-mining type equipment. Gor. zhur. no.4:26-30 Ap '61. (MIRA 14:4)

1. Skakhta No.51 Dzhezkazganskogo rudnika.
(Mining engineering)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGALIYEV, A.

Industrial testing of pyrotechnic relays in the Dzhezkazgan Mine. Gor. zhur. no.1:46-47 Ja '62. (MIRA 15:7)

1. Dzhezkazganskiy gorno-metallurgicheskiy kombinat.
(Dzhezkazgan District—Blasting—Electric equipment)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGALIYEV, A.

New variations in the chamber-and-pillar system in the Dzhezkazgan Mine. Gor.zhur. no.4:11-15 Ap '62. (MIRA 15:4)

1. Nachal'nik uchastka novoy tekhniki shakhty No.51 Dzhezkazganskogo rudoupravleniya.
(Dzhezkazgan District--Mining engineering)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, K.

Academician D.N.Prianishnikov as the founder of Soviet agrochemistry. Vest. AN Kazakh. SSR 21 no.11:85-90 N '65. (MIRA 18:12)

1. Chlen-korrespondent AN Kazakhskoy SSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

C. A. IMANGAZIYEV, K. I.

The immediate and residual effect of Karatau phosphorite on the yield of different crops under conditions of Southern Kazakhstan. K. I. Imangaziev. *Doklady Vsesoyuz. Akad. Selsko-khoz. Nauk im. V. I. Lenina* 10, No. 7, 23-8(1931) (Russ.). Pot and field expts. show that sugar beets, spring wheat, rice, legumes, and grasses respond to phosphorite applications, especially in the presence of K and N salts. A double dose of phosphorite (180 kg./ha. of P_2O_5) compares favorably with a single dose (90 kg./ha. of P_2O_5) of superphosphate. The soils used were chestnut brown and gray-semidesert.

J. S. Joffe

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, Kenkes Imangaziyevich (Kenasse MTS in the Dzhambul'skaya Oblast, Kazakh SSR), Academic degree of Doctor of Agricultural Sci, based on his defense, 24 November 1954, in the Council of Soil Inst imeni Dokuchayev, Acad Sci USSR, of his dissertation entitled: "Fertilization system of beet crop rotation in the irrigated zone of the Kazakh SSR." For the Academic Degree of Doctor of Sciences.

SO: Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No, 6, 17 March 1956, Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, Kenzes Imangaziyevich, doktor sel'skokhozyaystvennykh nauk; GAREYSOV, A.M., spets. redaktor; SAVICH, M.P., redaktor; ZLOBIN, M.V., tekhnicheskiy redaktor

[System of fertilizing in a crop rotation system including beets on irrigated land] Sistema udobreniia rastenii svekolichnogo sevooborota v oroshaemom zemledelii. Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 294 p. (MLRA 10:3)
(Fertilizers and manures) (Sugar beets)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, K. I.

IMANGAZIYEV, K.I.

Nitrogen balance in soils of southern Kazakhstan and ways of its regulation [with summary in English]. Pochvovedenie no.7:38-46 Jl '57. (MIRA 10:11)

1. Institut pochvovedeniya Akademii nauk Kazakhskoy SSR.
(Kazakhstan--Soils) (Nitrification)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, K.I.; AGISHEV, M. Kh.

Determining the resources of assimilable phosphates in soils by the use of the phosphorus isotope P^{32}. Vest. AN Kazakh. SSR 20 no.12:15-24 D '64 (MIRA 18:2)

1. Chlen-korrespondent AN KazSSR (for Imangaziyev).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGAZIYEV, K.I.

Present state of agrochemical research in Kazakhstan. Vest. AN Kazakh. SSR 21 no.5:13-23 My '65. (MIRA 18:7)

1. Chen-korrespondent AN KazSSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

LYUBMAN, N.Ya.; SHOSTAK, F.T.; IMANGAZIYEVA, G.K.

Membranes with a base of styrene-formaldehyde resins. Report No.1: Synthesis of styrene-formaldehyde resins. Izv. AN Kazakh. SSR. Ser. tekh. i khim.nauk no.3:9-14 '64. (MIRA 17:2)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SHOSTAK, F.T., kand.tekh.nauk; LYUBMAN, N.Ya.; IMANGAZIYEVA, G.K.

Synthesis of oxygen-containing hydrocarbon-formaldehyde resins and their use as bridging agents. Vest. AN Kazakh.SSR 19 no.10:27-32 O '63. (MIRA 17:1)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

L 21340-65 EWT(m)/EWP(j)/T Pc-4 RM3/RM

[illegible]

[illegible] exchange membrane membrane mechanical property [illegible]

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

L 21340-65

ACCESSION NR: AT5001009

bonded ionogenic groups; thus, sulfonation yields highly acidic monofunctional membranes. The electrical resistance decreases with increasing polystyrene concentration and increases with the amount of cross-linking agent used. The potential [illegible]

[illegible] Academy of Sciences Kazakh [illegible]

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

ACCESSION NR: AP4043826 S/0260/64/000/003/0082/0084

[illegible] Lyubimov, V. Z.; Lyubimov, M. Y.; Sh[illegible]

[illegible] under various conditions

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

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predominant product is phenyl-1, 3-dioxane; at 40-50% H_2SO_4 - the products are chiefly

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SOV/64/000/011/0074/0076

AUTHOR: Lyubman, N. Ya., Khoutuk, F. T., Umarganiyeva, G. K.

TITLE: Membranes based on styrene-formaldehyde resins. Report I. The synthesis of styrene-formaldehyde resins

Card 1/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

[illegible] index of refraction [illegible] hyde ratio of 1:4. The probable mechanism of the reaction between [illegible]

SUB CODE: OC, MT ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

L 21341-65 EWT(m)/EWP(j)/T Pc-4 BSD/SSD/AFWL/APGC(b)/ESD(gs)/ESD(t)
RWH/RM
ACCESSION NR: AT5001011 S/2850/64/011/000/0104/0107

AUTHOR: Lyubman, N.Ya., Agashkin, O.V., Kushnikov, Yu.A., Karteeva, I.I., Shostak, F.T., Imangaziyeva, G.K.

TITLE: Membranes based on styrene-formaldehyde resins. Part 2. A study of the structure of styrene-formaldehyde resins by infrared spectroscopy

SOURCE: AN KazSSR. Institut khimicheskikh nauk. Trudy, v. 11, 1964. Sintez i issledovaniye vysokomolekulyarnykh soyedineniy (Synthesis and research of high-molecular compounds), 104-107

TOPIC TAGS: styrene formaldehyde resin, polystyrene membrane, infrared spectroscopy, polymer composition, styrene polymerization

ABSTRACT: Styrene-formaldehyde resins were prepared by a method described in the first part of the paper (Izv. AN KazSSR, Seriya Khim. i Tekhn. Nauk (1963), #3), involving condensation in the presence of 46% sulfuric acid and when 0.5:1 to 3:1 molar ratios of formaldehyde to styrene; they were analyzed by infrared spectroscopy of the membranes or their solutions in carbon tetrachloride. The spectra shown in Fig. 1 of the Enclosure proved the absence of vinyl groups; thus, the reaction proceeds with the participation and

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ACCESSION NR: AT5001011

elimination of double bonds in the styrene chain. Oxygen is bonded into ether and acetal groups, and the length of the acetal chain increases with the feed concentration of formaldehyde. Aromatic rings do not form a part of the linear chain, whose terminals are formed by hydroxyl and methyl groups. Ketone groups are present, but the low intensity of the corresponding bands indicates a low concentration. Selected structures for the chain of styrene formaldehyde resins are proposed. Elemental composition, molecular weight, specific gravity, and refractive index of the studied specimens were determined and tabulated. Orig. art. has: 2 tables, 1 figure, and 4 formulas.

ASSOCIATION: Institut khimicheskikh nauk, Akademiya nauk Kazakhskoy SSR (Institute of Chemical Sciences, Academy of Sciences of the Kazakh SSR)

SUBMITTED: 00 ENCL: 01 SUB CODE: MM

NO REF SOV: 002 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANGULOV, R. G., LISTOVA, N. M. and ZAGRYADSKIY, R. G.

"The Gas Exchange and Energy Consumption of the Men in the Rifle Units Engaged in Tactical Exercises".

Voyenno Meditsinskiy Zhurnal, No. 4, 1962

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

B GDANOV, N.A.; YEMELKOV, Ye.V.; IMAMOVLOV, R.G.; LIKHOSHAP, I.N.; SHELYAPIN, N.N.; STESHENKO, V.F., Ed.

[Pathology, clinical aspects, and treatment in lesions from toxic chemical agents and radioactive substances] Patologiia, klinika i terapiia pri porazhenijakh OV i RV. Leningrad, Meditsina, 1964. 188 p. (MIRA 18:2)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

AUTHORS: [illegible] Ye. P. Shuppe [illegible]

TITLE: Adsorption of barium on tungsten wires made incandescent

ABSTRACT: The investigations were made in instruments comprising diodes with cylindrical slotted anodes, as shown in Fig. 1 of the enclosure. A polished tungsten wire (grade VA-3) 11--12 cm long was stretched along the axis of the diode. The barium sources were molybdenum vessels filled with barium-beryllate powder. The initial [illegible]

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perature and of the barium sputtering time are discussed. The values obtained for the work functions and the heats of adsorption of barium are 4.90 and 3.2 eV in the case of dc and 4.45 and 4.25 eV in the case of ac. These agree with earlier data by one of the authors (Shuppe, Elektronnaya emissiya metallicheskikh kristallov [Electron

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Card 3/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

9.3120
26.2012
26.2531

36883
S/181/62/004/004/027/042
B102/B104

AUTHORS: Sytaya, Ye. P., Smorodinova, M. I., and Imangulova, N. I.

TITLE: Electron and ion emission from the faces (110) and (100) of a big tungsten monocrystal

PERIODICAL: Fizika tverdogo tela, v. 4, no. 4, 1962, 1016-1020

TEXT: The authors measured the electron work function for the faces (110) and (100) of W single crystals by means of electron emission and surface ionization of Na and Ba atoms. The pressure in the tube in which the measurements were made was less than 10^{-8} mm Hg, the samples were heated before measuring up to ~2800°K. The work function was determined from the straight lines $\log(I/T^2)+C = f(1/T)$ (Richardson law) with $A_0 = 120$ a/cm^2·deg^2 and D=1. The work functions obtained were: $\varphi^*_{(110)} = 5.30 \pm 0.06$ ev and $\varphi^*_{(100)} = 4.66 \pm 0.06$ ev. From the salient points of the temperature dependence of the electron emission the threshold temperatures of oxygen adsorption were determined. They were ~2100°K for the (100) face and ~2000°K for the (110) face. The lower

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

Electron and ion emission from... S/181/62/004/004/027/042
B102/B104

ASSOCIATION: Tashkentskiy gosudarstvennyy universitet im. V. I. Lenina (Tashkent State University imeni V. I. Lenin)

SUBMITTED: July 20, 1961 (initially)
December 19, 1961 (after revision)

Card 3/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMAMI, S.

GAMOV, V.S.; GIRGOLAV, S.S., professor, nachal'nik; IMAMI, S., nachal'nik.

Surgical therapy of Echinococcus of the lungs. Vest.khir. 73 no.3:34-40 My-Je '53. (MLRA 6:6)

1. Kafedra gospital'noy khirurgii Voyenno-meditsinskoy akademii imeni S.M.Kirova (for Gamov and Girgolav). 2. Gospital' [Voyenno-meditsinskoy akademii imeni S.M.Kirova] (for Gamov and Imami). (Lungs--Hydatids)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

137-58-6-13333

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 311 (USSR)

AUTHOR: Imankulov, A.

TITLE: Investigation of Fatigue Phenomena in Coarse-grained Steel (Issledovaniye ustalosti krupnozernistoy stali)

PERIODICAL: Uch. zap. Fiz.-matem. fak. Kirg. un-t, 1957, Nr 4, part 1, pp 109-117

ABSTRACT: The mechanism of fatigue in coarse-grained steel of type St 40 was investigated by means of X-ray analysis and microhardness studies. A novel method is proposed for making X-ray photographs of standard specimens (S) employed in machines for fatigue testing whereby it is possible to obtain continuous interference lines (L) by rotating the S around its longitudinal axis which is situated perpendicularly with respect to the primary pencil of rays. Steel S's were investigated under Co-K_{α} radiation which produced interference L's (310), (220), and (211) on the diffraction pattern. In order to increase the sensitivity and accuracy of the method, the intensity of L (310) was reduced by means of Al filters. The nature of changes in lattice distortions was determined with the aid of a graph showing

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137-58-6-13333

Investigation of Fatigue Phenomena in Coarse-grained Steel

the width and intensity of the L's as a function of the number of cycles. Harmonic analysis was employed as a means of separating out factors which affect the widening of the L's. Microhardness measurements were performed on an IMT-3 tester with automatic loading. The S's being tested were provided with a special stress concentrator: a "groove" produced by a steel cord which was pressed against the S undergoing fatigue tests with a force of 2 kg. In order to prevent overheating and wear, both the cord and the S were cooled with water during the fatigue test. Measurements of microhardness carried out during the test have shown that the metal experiences an initial increase in hardness followed by gradual softening which continues until the S fails. The sharp increase in the width of the L (310), observed in connection with the increased number of load-reversal cycles, points to considerable changes occurring in the structure of the S due to the growth of crystalline lattice distortions. An increase in the width of the L (310) is observed only up to a certain number of cycles, after which stabilization sets in. It is shown mathematically that the mean-square displacements of atoms from the lattice, corresponding to a maximum change in the intensity of the L (310), attain a value of 0.05.

1. Steel--Fatigue 2. Steel--Test results

V. N.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANKULOV, A.: Master Phys-Math Sci (diss) -- "X-ray investigation of the mechanism of steel breakdown in sign-changing deformation". Frunze, 1958. 10 pp (Kirgiz State U), 200 copies (KL, No 6, 1959, 124)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANKULOV, A.

KYDYNOV, M., nauchnyy sotrudnik; BATYRCHAYEV, I.; LOPINA-SHENDRIK, M.D.; KALBAYEV, A.; IMANAKUNOV, B.; SULAYMANKULOV, K., kand.khim.nauk; DUYSHENALIYEVA, N.; AKBAYEV, A.; KAZIYEV, K.; COLOVIN, F.I.; BAKASOVA, Z.; KOVALENOK, Z.P.; SHELUKHINA, N.P.; BUGUBAYEV, A.B., starshiy prepodavatel'; BAYBULATOV, E.B., mladshiy nauchnyy sotrudnik; FILIPPOV, N.A., mladshiy nauchnyy sotrudnik; MAMBETAKUNOV, T., aspirant; IMANKULOV, A., aspirant; TURMAMBETOV, S., mladshiy nauchnyy sotrudnik; MUKHAMEDZIYEV, M.M., nauchnyy sotrudnik; KONURBAYEV, A.O.; PAK, L.V.; RUDAKOV, O.L.; TOKTOSUNOV, A.; KULAKOVA, R.I.; ASHIRAKHMANOV, Sh., aspirant; ALYSHBAYEV, B.; SULTANALIYEV, A.; AKHMETOV, K.; POLONOVA, A.P.; NIKITINSKIY, Yu.I.; SHAMBETOV, S.Sh.; DZHUMBAYEV, B.O., nauchnyy sotrudnik; DRUZHININ, I.G., red.; ANOKHINA, M.G., tekhn.red.

[Papers by junior scientists of the Academy of Sciences of the Kirghiz S.S.R.] Trudy molodykh nauchnykh rabotnikov AN Kirgizskoi SSR. Frunze, 1958. 411 p. (MIRA 12:3)

(Continued on next card)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KYDYNOV, M.---(continued) Card 2.

1. Akademiya nauk Kirgizskoy SSR, Frunze. 2. Institut khimii AN Kirg.SSR (for Kydynov). 3. Kirgizskiy gosudarstvennyy universitet (for Bugubayev). 4. Institut geologii AN Kirg.SSR (for Baybulatov). 5. Institut vodnogo khozyaystva i energetiki AN Kirg.SSR (for Filippov). 6. Otdel fiziki i matematiki AN Kirg.SSR (for Mambetakunov, Imankulov). 7. Institut zoologii i parazitologii AN Kirg.SSR (for Turmambetov). 8. Kirgizskiy meditsinskiy institut (for Mukhamedziyev). 9. Otdel pochvovedeniya AN Kirg.SSR (Ashirakhmanov). 10. Institut botaniki AN Kirg.SSR (for Alyshbayev, Sultanaliyev, Akhmetov, Polenova, Nikitinskiy). 11. Institut istorii AN Kirg.SSR (for Dzhumbayev).

(Science--Collections)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SOV/123-59-16-63728

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 17 (USSR)

AUTHOR: Imankulov, A.

TITLE: X-Ray Test of the Fatigue of Steel, Pre-Strengthened by Polishing

PERIODICAL: Tr. molodykh nauchn. rabotnikov AN KirgSSR. Frunze, 1958, pp 123-217

ABSTRACT: The article has not been reviewed.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

81808

18.9100
18.8200

S/137/60/000/04/12/015

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 4, p. 265, # 8583

AUTHOR: Imankulov, A. [redacted]

TITLE: X-Ray Analysis of Fatigue in Steel, Preliminary Strengthened by Grinding 14 26

PERIODICAL: Tr. molodykh nauchn. rabotnikov AN KirgSSR, Frunze, 1958, pp. 213-217

TEXT: Investigations were carried out with 45 grade structural steel specimens. Prior to the tests the surface layers of the specimens were strengthened by grinding; as a result the metal underwent considerable crystallite and elemental distortions. To determine the nature of expansion of interference lines on the radiographs, all the 3 lines, (310), (220), and (211) were subjected to harmonic analysis and not as usually only one of them. Special attention was paid to a higher accuracy in evaluating the elemental deformations of the lattice. For this purpose a specially designed camera was used, serving to obtain on one film all the "reverse" inferferences at an angle $\theta > 45^{\circ}$. The radiographs were recorded by Co irradiation. After investigating the initial state of the structure, the ground specimens were subjected to cyclic load on a HU(NU)-type machine under

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81808

S/137/60/000/04/012/015

X-Ray Analysis of Fatigue in Steel, Preliminary Strengthened by Grinding

various loads exceeding σ_w. The changes in the lattice distortion, depending on the number of cycles, were studied. It was shown that the most marked changes in width and relative intensity were observed for the (310) line; under all loads the width of this line decreased and its relative intensity increased with a greater number of cycles. This proves a relaxation of deformation in the lattice. The most intensive changes in the structure of the specimen occurred during the first 300,000 cycles. Further loading of the specimen up to a break did not entail any changes in the deformed state of the metal. The maximum change in the line width was 14-15%; the relative intensity increased by 30-32% with respect to the ground specimen. To investigate the mechanism of softening under the effect of a cyclic load the harmonic analysis was used for a specimen under load. It was established that the magnitude of the interval of uniform deformation remained constant at an increased number of cycles and was 250 A. Analogous results were obtained for the magnitude of the domain. The magnitude of the maximum distortion of the lattice decreased hereby and maximum changes were observed during the first cycles of loading the specimen. There are 7 references.

L. G.

Card 2/2

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

L 15488-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD

ACCESSION NR: AR3003753 S/0137/63/000/005/I044/I044

SOURCE: RZh. Metallurgiya, Abs. 5I235

AUTHOR: Imankulov, A.; Mukanbayev, A.

TITLE: X-Ray diffraction study of the surface layer of fatigue and static breaks

CITED SOURCE: Tr. Frunzensk. politekhn. in-ta, vyp. 6, 1962, 111-116

TOPIC TAGS: fatigue break, static break, stress, brittleness

TRANSLATION: The fine structure of the surface layer of fatigue breaks (B) was investigated by X-ray diffraction study; in particular, the distorted state and block structure of the "fatigue" (or abraded) and "brittle" (static) zones were compared. B obtained after fatigue and static breakdowns were investigated, in the presence of the same stress concentrators in the samples (S) for both cases. The values of the dangerous stresses, under the action of which "brittle" zones of fatigue B were formed, were calculated on the basis of the values of the applied stress and the diameter of the "brittle" zone. The S were broken under the action of stresses corresponding to those calculated, and in static tests

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L 15488-63
ACCESSION NR: AR3003753

of S prepared from St 40, they had a V-shaped end cut 1 mm deep; before the tests the S were annealed to remove preliminary distortions. The S were subjected to X-ray diffraction study in Co-radiation on a chamber of the KROS-1 type, with a semi-cylindrical cassette. The width of the interference lines (IL) was measured by the Stokes method. An independent standard of fine-grained Al was used to increase the accuracy of the measurement of relative intensity of the IL. It was shown that the width of the IL 310 for fatigue B increases almost linearly as the depth of the zone is increased in the radial direction. At the same time, all the points on the surface of the static B are distorted to the same degree. A comparison of the values of the width of the IL 310, corresponding to the "brittle" zone of a fatigue B in the zone of static B, indicates greater distortion of the latter. A separation of the effects of microdistortion and block character in various B, performed by means of harmonic analysis, showed that the zone of static B corresponds to greater microdistortions and to larger blocks than the "brittle" zone of a fatigue B. The conclusion is drawn that the central zone of a fatigue B, usually called brittle (static), is actually not identical to the usual brittle (static) zone. This zone is formed under the action of a very rapidly varying load, with alternating sign. L. Gordiyenko.

DATE ACQ: 21 Jun 63 SUB CODE: ML ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANKULOV, A., dotsent; MUKANBAYEV, A., assistent

X-ray diffraction study of the surface layer of fatigue and brittle fractures. Trudy Frunz. politekh. inst. no. 6:111-116 '62. (MIRA 17:9)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

Imankulov, Zh.

IMANKULOV, Zh.

Petrographic characteristics of a cross section through the Irtysh crush zone in the region of Berezovskiy ore deposits. Trudy Alt. GMNII AN Kazakh. SSR 4:15-37 '57. (MIRA 11:1)
(Irtysh Valley--Geology, Structural)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SOV/124-58-5-6158

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 158 (USSR)

AUTHOR: Imankulov, A.

TITLE: Investigation of Fatigue of Coarse-grained Steel (Issledovaniye ustalosti krupnozernistoy stali)

PERIODICAL: Uch. zap. Fiz.-matem. fak. Kirg. un-ta, 1957, Nr 4, part 1, pp 109-117

ABSTRACT: Bibliographic entry

1. Steel--Fatigue

Card 1/1

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, A.M.; GADZHIYEVA, T.I.

Temperature dependence of relaxation time in chlorobenzene and bromobenzene. Uch.zap.AGU.Fiz.-mat.i khim.ser. no.1: 67-72 '59. (MIRA 13:6)

(Benzene)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, A.M.; SEIDOV, A.G.

Age and synchronicity of the Akera and Goris series (Lesser Caucasus). Dokl. AN Azerb. SSR 21 no.5:44-48 '65. (MIRA 18:9)

1. Institut geologii AN AzerSSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, A.M., inzh.

Volcanic ash as a hydraulic admixture in the production of cement and local binding materials. Stroi.mat. 8 no.3:36 Mr '62. (MIRA 15:8)
(Volcanic ash, tuff, etc.) (Building materials)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

SEIDOV, A.G.; IMANOV, A.M.

Volcanic ash in Dzhebrail District. Dokl.AN Azerb.SSR 18 no.1:43-47 '62. (MIRA 15:3)

1. Institut geologii AN AzSSR. Predstavleno akademikom AN AzSSR A.D.Sultanovym.
(Dzhebrail District--Volcanic ash, tuff, etc.)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, A.M.; SEIDOV, A.G.

Lithological characteristics and conditions governing the formation of the fine-grained limestone of the Akera series (Lesser Caucasus). Dokl. AN Azerb. SSR 21 no.4:33-36 '65. (MIRA 18:7)

1. Institut geologii AN AzerSSR.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

TURDAKOV, Fedor Alekseyevich; IMANOV, Dzh.I., otv. red.; SOKOLNIKOVA, N.V., red.izd-va; POPOVA, M.G., tekhn. red.

[Fishes of Kirghizia] Ryby Kirgizii. Izd.2. Frunze, Izd-vo AN Kirg.SSR, 1963. 282 p. (MIRA 16:10)
(Kirghizistan--Fishes)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, D.

Two species Diptychus gymnogaster Kessler and Diptychus sewerzowi Kessler of the Tien Shan. Ikht. sbor. no.1: 39-56 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, Dzh.I.

Some data on the morphology and biology of Phoxinus issyklensis Berg. from Lake Issykkul'. Ikht. sbor. no.1:76-79 '63. (MIRA 18:2)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, E. D.

"Q-fever among the agricultural animals in Kirgizia." p. 135

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Science USSR and Academy of Sciences USSR, No. 1 254pp.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, Engel' Danakeyevich; GOLOD, O.V., red.; CHOTIYEV, S., tekhn. red.

[Virus diseases of farm animals] Virusnye bolezni sel'sko-khoziaistvennykh zhivotnykh. Frunze, Kirgizskoe gos. izd-vo, 1960. 24 p. (MIRA 15:3)

(Virus diseases) (Veterinary medicine)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, E.D.

Distribution of Q-fever in the Kirghiz S.S.R. Zhur.mikrobiol., epid. i immun. 32 no.10:96-100 O '61; (MIRA 14:10)

1. Iz Instituta zoologii i parazitologii AN Kirgizskoy SSR.
(KIRGHIZISTAN—Q FEVER)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, E.D.

Distribution and natural foci of Q rickettsiosis in Kirghizistan. Izv. AN Kir. SSR Ser. biol. nauk 4 no.4:49-63 '62. (MIRA 16:6)

(KIRGHIZISTAN—Q FEVER)
(KIRGHIZISTAN—ANIMALS AS CARRIERS OF DISEASE)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, E.D.

Characteristics of natural foci of Q rickettsiosis in some regions of Kirghizistan. Izv. AN Kir. SSR Ser. biol. nauk 4 no.5:53-64 '62. (MIRA 16:6)

(Kirghizistan—Q fever)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KAS'YANOV, A.N.; KRAPIVNER, L.M.; LUZYANIN, D.; SHAMBRIN, I.; KHAVCHENKO, D.; AFANAS'YEV, Ya.I.; ABUGHAYEV, I.Sh.; IMANOV, E.D.

Information and brief news. Veterinariia 40 no.4:87-93 Ap '63. (MIRA 17:1)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, I.

We are doing more feeding out. Mias. ind. SSSR 29 no.5:39 '58.
(MIRA 11:10)

1. Bakinskiy myasokombinat.
(Swine--Feeding and feeding stuffs)
(Cattle--Feeding and feeding stuffs)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

KADYROV, A.A., kand. geologo-mineralogicheskikh nauk; IMANOV, K.A.

Some results of a study on the Naftalan deposit of therapeutic petroleum. Sbor. trud. Azerb. nauch.-issl. inst. kur. i fiz. metod. lech. no.9:136-140 '63. (MIRA 18:8)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, Kh.G.; BOZIYAN, Kh.A.

Improving hygienic conditions in rural settlements. Gig. i san. 22 no.7:81 Jl '57. (MIRA 10:10)
(PUBLIC HEALTH, RURAL)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L. M. Cand. Physicomath Sci.

Dissertation: "Investigation of the Wave-Guide Method for Measuring the Dielectric Constants of Liquids."

21/6/50
Moscow Order of Lenin State U. imeni M. V. Lomonosov.

SO Vecheryaya Moskva
Sum 71

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CA IANKOV, G.N.

Measurement of the dielectric constants of liquid dielectrics in the centimeter-wave range. L. M. Imaev (Novosib. State Univ.). *Izvestia Vysshikh Ucheb. Zav. Fiz.-Mat. i Estest. Nauk* No. 3, 31-42(1960).—The waveguide method (described independently), with $\epsilon' = [(1/\lambda_c)^2 + (\beta/2\pi d)^2]/[(1/\lambda_c)^2 + (1/\lambda)^2]$ and $\epsilon'' = 2\alpha\beta/(2\pi d)^2[(1/\lambda_c)^2 + (1/\lambda)^2]$, and $\tan\delta = \epsilon''/\epsilon'$ (cf. preceding abstr., Burdun) was applied to liquid dielectrics. The following values of ϵ', ϵ'', $\tan\delta$, n (refractive index), α (absorption coeff.), and α_c, were det'd. in $\lambda \sim 10$ cm., at the stated temps.: gasoline (b. 69-100°) (19.3°) 1.[illegible], 0.0110, 0.0[illegible], 1.491, 0.0[illegible], 0.0043; gasoline (b. 101-150°) (21°) 2.0[illegible], 0.0141, 0.0[illegible], 1.4[illegible], 0.0064, 0.0049; gasoline (b. 151-170°) (21°) 2.1[illegible], 0.0188, 0.0[illegible], 1.4[illegible], 0.0041, 0.0061; C_6H_6 (17.2°) 2.[illegible], 0.0[illegible], 0.0[illegible], 1.5[illegible], 0.0104, 0.0189; toluene (19.1°) 2.[illegible], 0.0[illegible], 0.0114, 1.5[illegible], 0.0067, 0.0[illegible]; Et_2O (17.2°) 4.[illegible], 0.0[illegible], 0.0[illegible], 2.0[illegible], 0.0[illegible], 0.0[illegible]; Me_2CO (18°) 20.7[illegible], 0.[illegible], 0.[illegible], 4.[illegible], 0.0193, 0.0[illegible]. The values of ϵ' for C_6H_6, toluene, Et_2O, and Me_2CO are in agreement with accepted data and confirm the correctness of the method. The data of ϵ'', $\tan\delta$, n, and α, are for the most part new. By Potapenko's measurements in $\lambda = 66.3$ and 30.0 cm., α for $C_6H_6 = 0$, as against the present $\alpha = 0.0104$ (distinctly beyond possible expt'l. error)! This indicates that from $\lambda = 30$ to $\lambda = 10$ cm. α increases from zero to a finite absorption. N. Thon

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Method of computing [illegible]

[illegible] (C.A. 45, 9056d) and Hudson (C.A. 45, [illegible]) [illegible] formulas [illegible] 19, 1193(1949). The exact equations are very [illegible] to errors of measurement of experimentally [illegible] [illegible] is the coeff. of modulus, and I is thickness of [illegible]

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USSR

Relation of specific gravity and [illegible] crude oils and their fractions. [illegible] Abst. Nauk Azerbaidzhan. S.S.R. [illegible] Zhur., Khim. 1954, No. 3[illegible]. — The dielectric constant (ε') and the tangent of the loss angle (tan δ) were [illegible] for crude oil (I), fractions of Surakhan crude oil (II), fractions of Balakhan oil, and gasoline fractions (III). [illegible] was described earlier (cf. C.A. 45, [illegible]). In all cases there was a linear relation between the sp. gr. (d) and ε', viz. ε' = 1.790 + 2.23 (d − 0.700) for I, and ε' = 1.900 + 2.35 (d − 0.700) for II and III. No relationship was found between sp. gr. and tan δ for I, but for II and III the relationship between tan δ and ε' could be expressed by a straight line of a slope characteristic for each of the products. M. [illegible]

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IMANOV, L.M.

Effect of concentrations on anomalous dispersion and absorption of a solution. Dokl. AN Azerb. SSR 10 no.12:835-841 '54. (MLRA 8:10)

1. Institut fiziki i matematiki Akademii nauk Azerbaydzhanskoy SSR. Predstavleno deystvitel'nym chlenom Akademii nauk Azerbaydzhanskoy SSR Kh.I.Amirkhanovym.
(Dielectrics)

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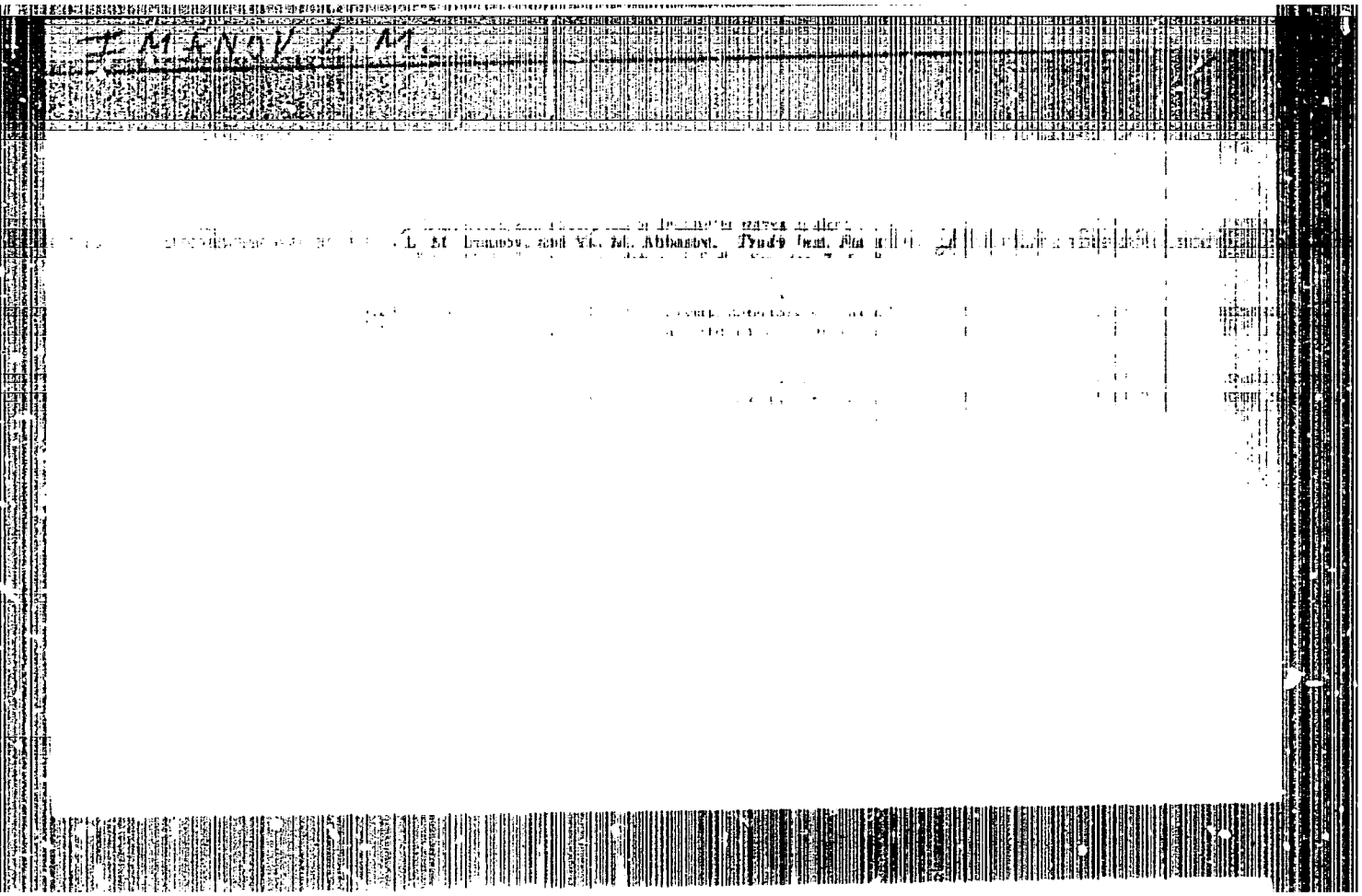

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IMANOV, L.M.

New conclusions from the theory polarization in an alternating electrical field. Uch.zap. AGU no.8:39-50 '55. (MLRA 9:11)
(Polarization (Electricity))

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IMANOV, L.M.

On internal fields in polar liquids. Trudy Inst.fiz.i mat.AN Azerb. SSR 8 '56. (MLRA 10:5)

(Electric fields) (Dielectrics)
(Polarization (Electricity))

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L. M.

USSR/Physical Chemistry. Liquids and Amorphous Bodies. Gases. B-6

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14566

Author : I. M. Imanov
Inst : ~~Academy of Sciences~~ of Azerbaijan SSR
Title : On the Question of Internal Field in Polar Liquids

Orig Pub: Me'ruzeler AzerbSSR elmler Akad., Dokl. AN AzerbSSR, 1956, 12, No 8, 531-536

Abstract: With a view to render Debye's theory of dielectric relaxation in polar liquids more exact, the mean field acting on a molecule is represented as $E=E_1+(4\pi/3)I+E'+E''$, where E_1 is the mean macroscopic field, $I=I_0+I_1$; I_0 is the electrical moment of a volume unit depending on the displacement polarization; I_1 is the electrical moment of a volume unit depending on the relaxation polarization; E' and E" are additional internal fields depending on displacement polarizations and orientation of particles situated within the Lorentz sphere. It is surmised that $E'=\beta_0 I_0$ and $E''=\beta I_1$. Basing on known theories (G. I. Skanavi, Fizika dielektrikov. M., 1949), it is found that $\beta_0=-4\pi/3+4\pi\sqrt{9\varepsilon_0}-$

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USSR/Physical Chemistry. Liquids and Amorphous Bodies. Gases. B-6
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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.M.; AKHMASOV, YA.H.

Absorption of microwaves in alcohols. Trudy Inst. fiz. i mat. AN Azerb. SSR. 9:85-96 '58. (MIRA 12:2)
(Microwaves) (Alcohols)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.N.

Determining dielectric coefficients with a Q-meter in case of high losses. Izv. AN Azerb. SSR. Ser. fiz. tekh. i khim. nauk no.2:29-35 '59. (MIRA 12:8)

(Dielectrics)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.; KADZHAR, Ch.

Radiospectroscope with electric molecular modulation. Izv. AN Azerb.SSR.Ser.fiz.-mat.i tekh.nauk no.4:49-61 '59. (MIRA 13:2)

(Radiofrequency spectroscopy)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

S/058/61/000/010/063/100
A001/A101

AUTHORS: Imanov, L.M., Zul'fugarzade, K.E.

TITLE: Temperature dependence of the complex dielectric constant of chlorobenzene and bromobenzene on the 11.5-cm wavelength

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 222, abstract 10D41 ("Izv. AN AzerbSSR. Ser. fiz.-matem. i tekhn. n.", 1960, no. 6, 117-127, Azerb. summary)

TEXT: Dielectric dispersion of polar liquids was studied by investigating the temperature dependence of complex dielectric constant $\varepsilon^* = \varepsilon' - j\varepsilon''$ at a fixed frequency. Liquids were poured into a short-circuited section of a coaxial line, maintained at a constant temperature, whose input impedance was measured by the method of measuring line. The authors present the results of measuring ε^* for a number of polar liquids (n-butyl alcohol, chlorobenzene (I) and bromobenzene (II)) on the wavelengths 11.5 and 19.0cm. Temperature dependences of ε^* are obtained on the 11.5-cm wavelength in the temperature range from -90 to +20°C. With decreasing temperature, at melting points (-45°C for (I) and -30.6°C for (II) occurs the sharp decrease of ε' and ε'' and relaxation time τ.

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

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A001/A101

Temperature dependence ...

Activation energies (U) in liquid state are determined from the slope of the $\ln \tau$ - 1/T straight line: 1.34×10^{-13} erg for (I) and 1.42×10^{-13} erg for (II). In solid state intermolecular interaction can not be characterized by one value of U, since the $\ln \tau$ -1/T relation is not a straight line in this case.

V. Petrov

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.M.; ZUL'FUGARZADE, K.E.

Temperature dependence of the complex dielectric permeability of chlorobenzene and bromobenzene at a wave length of 11.5 cm. Izv. AN Azerb. SSR. Ser. fiz.-mat. i tekh. nauk no.6:117-127 '60. (MIRA 14:8)

(Benzene--Electric properties)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.M.; KADZHAR, Ch.O.

Study of the microwave spectrum of the C_2H_5OH molecule. Izv. AN Azerb.SSR. Ser. fiz.-mat. i tekh. nauk 2:51-53 '61. (MIRA 14:7)
(Microwave spectroscopy) (Ethyl alcohol--Spectra)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

IMANOV, L.M.; ABBASOV, Ya.M.

Thermocontroller for low temperatures. Izv. AN Azerb. SSR. Ser.-fiz.-mat. i tekh.nauk no.5:79-82 '61. (MIRA 15:2)
(Low temperature research) (Dielectric constants)

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

9.2571

S/058/62/000/006/119/135
A062/A101

AUTHOR: Imanov, L. M.

TITLE: Theory of the resonator method for measuring the complex dielectric permeability

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 33, abstract 6Zh222 ("Dokl. AN AzerbSSR", 1961, 17, no. 8, 665 - 669; Azerb. summary)

TEXT: The theory of the resonator method of measuring the complex dielectric constant, applicable to materials having high losses, is developed. The problem is solved for a cylindrical resonator in which the H_{01n} type oscillation is excited and a sample of the investigated dielectric in form of a disk fills in a portion of the resonator and adheres to its butt. Subject to experimental determination are the resonance wavelengths and the values of the Q factor of the resonator, obtained before and after introducing the sample into its cavity. Simplified claculation relations are given that are correct for $\varepsilon \leq 3 \div 5$ and $\operatorname{tg}\delta < 0.3$.

[Abstracter's note: Complete translation] I. Ivanov

Card 1/1 Predstavleno akademikom AN Azerbaydzhanskoy SSR Z. I. Khalilovy

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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618530004-4

S/058/62/000/006/030/136
A061/A101

AUTHORS: Imanov, L. M., Kadzhar, Ch. O.

TITLE: Q-branch of the rotational microwave spectrum of the C_2H_5OH molecule

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 27, abstract 6V185 ("Dokl. AN AzerbSSR", 1961, v. 17, no. 10, 861 - 863, Azerb. summary)

TEXT: More than 100 lines of the ethyl alcohol molecule have been detected for the first time with the aid of a spectrometer with electric molecular modulation in the range of 20 - 34 Mc. Four transitions of the $Q_{1;-1}$-branch have been identified from an examination of the Stark effect, and the frequencies of Q-branch transitions have been determined in the approximation of a rigid asymmetrical rotator.

[Abstracter's note: Complete translation]

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